OIPE JC11
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PATENT & TRADEMARK OFFICE

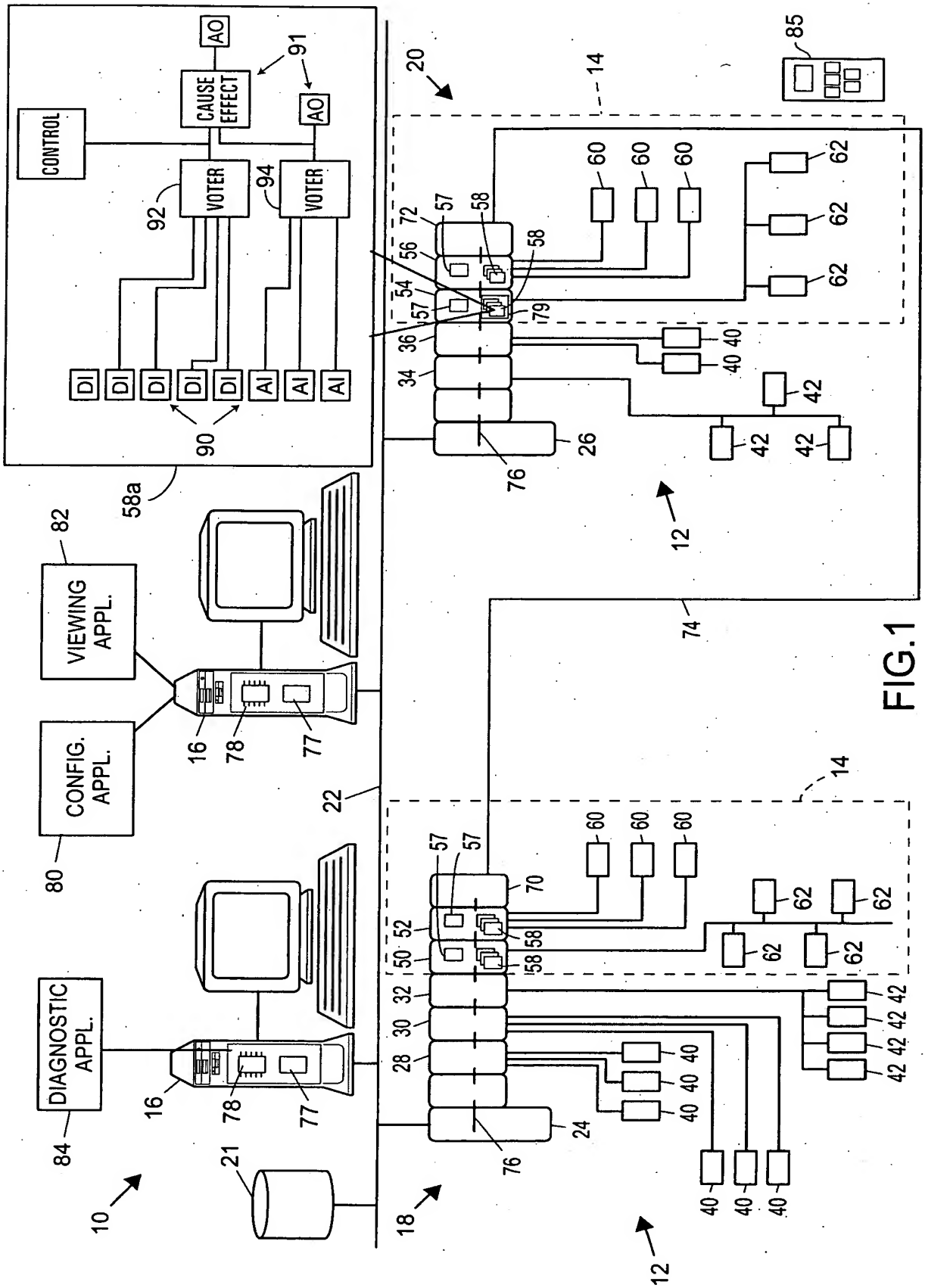

FIG.1

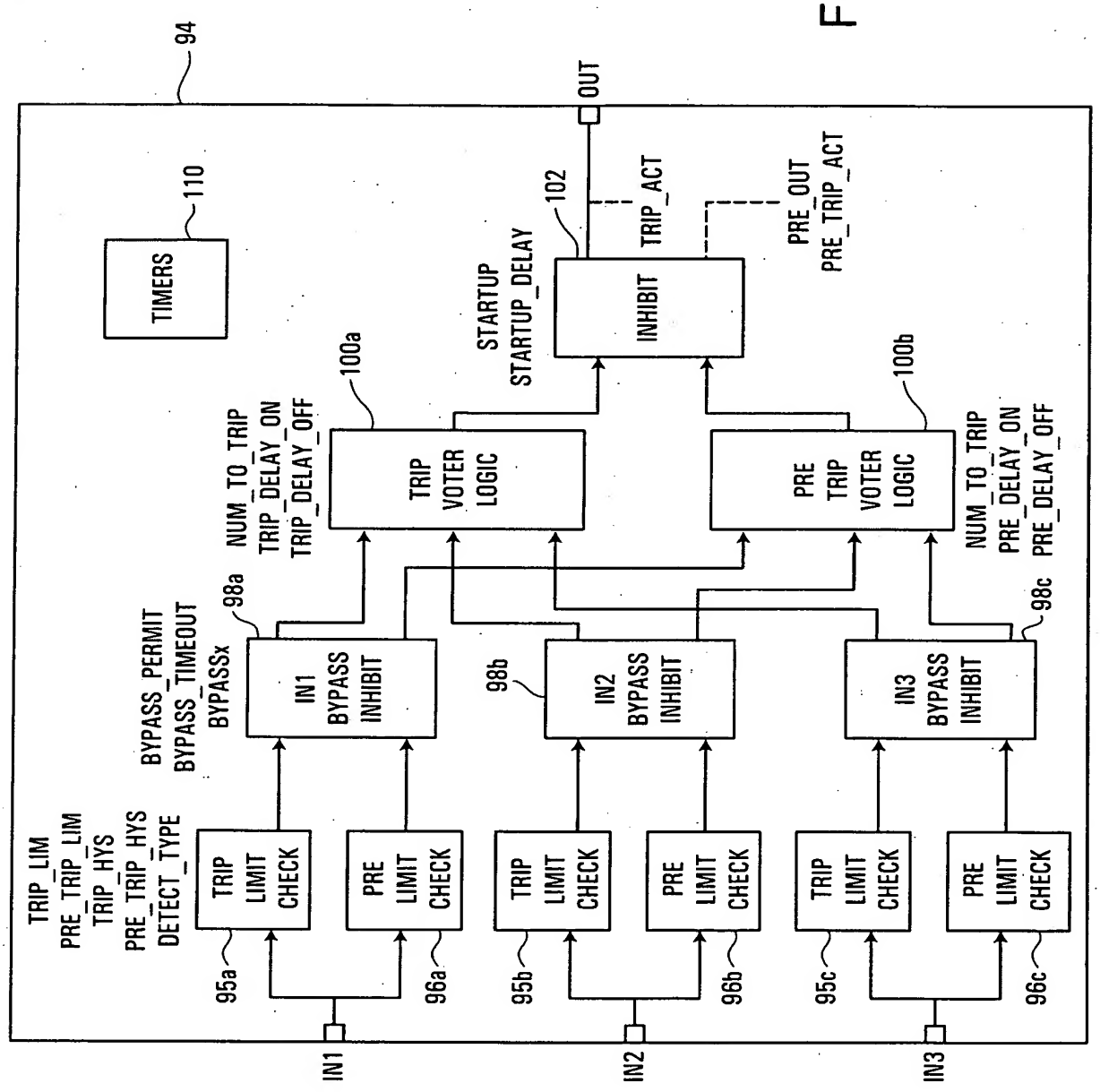
94
OUT
TIMERS
110
102
TRIP_ACT
PRE_OUT
PRE_TRIP_ACT
STARTUP
STARTUP_DELAY
INHIBIT
100a
100b
NUM_TO_TRIP
TRIP_DELAY_ON
TRIP_DELAY_OFF
TRIP VOTER LOGIC
PRE TRIP VOTER LOGIC
NUM_TO_TRIP
PRE_DELAY_ON
PRE_DELAY_OFF
98a
98b
98c
BYPASS_PERMIT
BYPASS_TIMEOUT
BYPASSx
IN1 BYPASS INHIBIT
IN2 BYPASS INHIBIT
IN3 BYPASS INHIBIT
TRIP_LIM
PRE_TRIP_LIM
TRIP_HYS
PRE_TRIP_HYS
DETECT_TYPE
TRIP LIMIT CHECK
PRE LIMIT CHECK
95a
96a
95b
96b
95c
96c
IN1
IN2
IN3

FIG. 2

Configured voting scheme	One input bypassed (use configured NUM_TO_TRIP)	One input bypassed (reduce NUM_TO_TRIP)
2oo3	2oo2	1oo2
2oo2	Trip Inhibited	1oo1
1oo2	1oo1	1oo1
1oo1	Trip Inhibited	Trip Inhibited
2oo4	2oo3	1oo3
6oo8	6oo7	5oo7

FIG. 3

Configured voting scheme	Always Use Value	Will Not Vote if Bad	Vote to Trip if Bad
2oo3	2oo3 or 1oo2	2oo2	1oo2
2oo2	2oo2 or 1oo1	Trip Inhibited	1oo1
1oo2	1oo2 or Tripped	1oo1	Tripped
1oo1	1oo1 or Tripped	Trip Inhibited	Tripped

FIG. 4

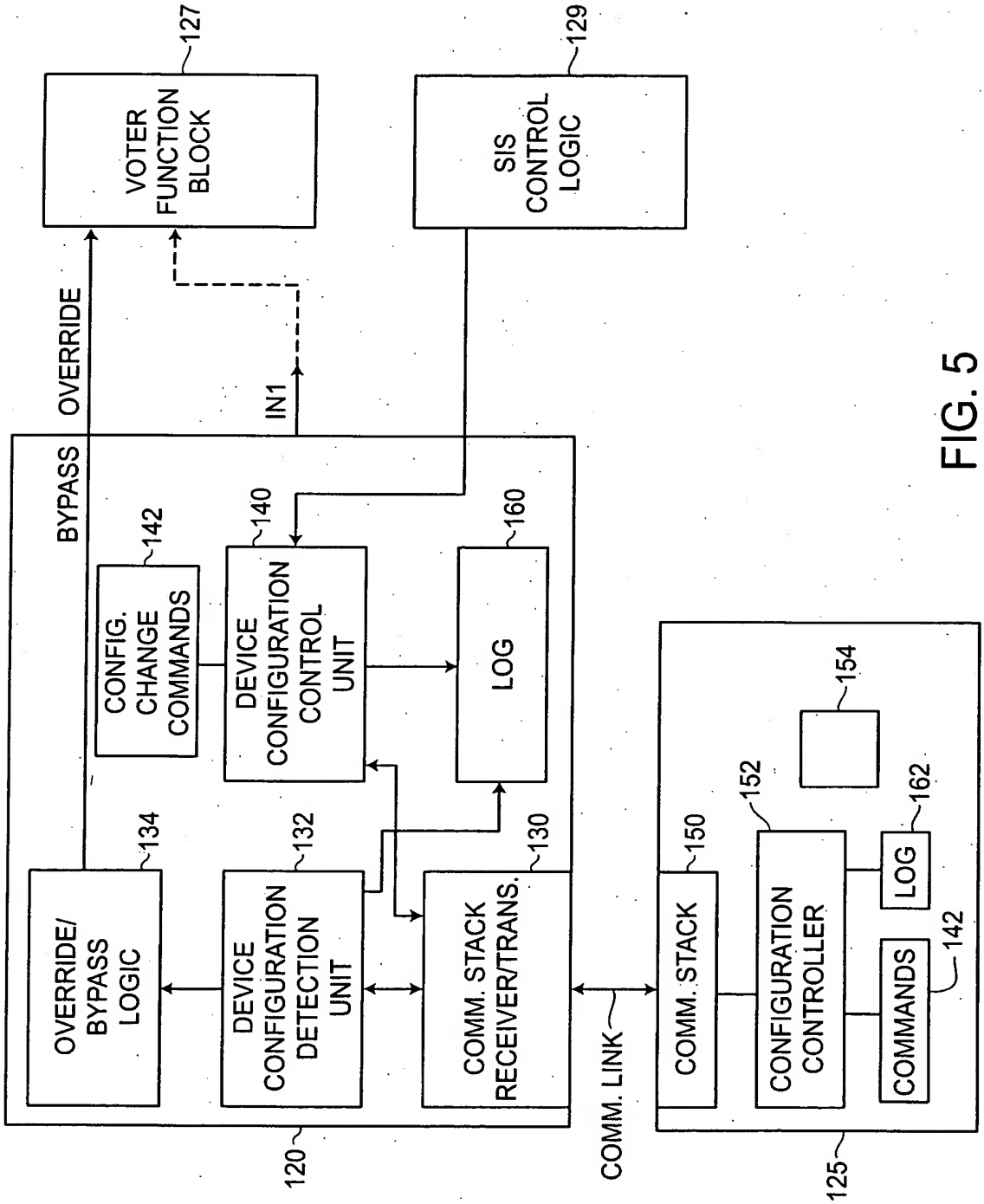
VOTER FUNCTION BLOCK
127
SIS CONTROL LOGIC
129
OVERRIDE
IN1
BYPASS
CONFIG. CHANGE COMMANDS
142
DEVICE CONFIGURATION CONTROL UNIT
140
LOG
160
OVERRIDE/ BYPASS LOGIC
134
DEVICE CONFIGURATION DETECTION UNIT
132
COMM. STACK RECEIVER/TRANS.
130
120
COMM. LINK
COMM. STACK
150
CONFIGURATION CONTROLLER
152
154
LOG
162
COMMANDS
142
125

FIG. 5